3rd Semester, Examination–2014

M.Sc. (IT)-10 (Master of Science in Information Technology)

MIT - 3001

JAVA Programming

Time : 3 Hours   **Maximum Marks :** 60

Note : The question paper is divided into three sections A, B and C. Give the answer according to the directions given in each section.

Section-A

(Long Answer Type Questions)

Note : Answer any two questions. Each question carries 15 Marks.

(2×15=30)

1. What are the characteristics of object oriented programming? Explain the difference between object oriented and procedure oriented programming.

2.   What are the different types of operators used in java ? Explain with help of appropriate example.

3.   What is Applet? Defferentiate between an Applet and application. What is the order of method invocation in an applet ?

4.   Justify that java is a machine independent language and explain the functionality of JVM. Explain the prerequisites for compiling and running java program.

Section-B

(Short Answer Type Questions)

Note : Answer any four questions. Each question carries 5 Marks.

$(4 \times 5 = 20)$

1.   What is the difference between java and java script ?

2.   Explain the different control statement used in java ?

3.   What is object and classes? Explain by giving an example.

4.   What are the different wrapper classes used in java ? Explain.

5.   Write a program in java to calculate the area and circumference of a circle using class and object.

6.   What is switch statement?Explain by giving example.

7.   What is static function? Explain by giving example.

8.   What is the use of constructor in java? Give example.

Section-C

Objective Type Questions (Compulsory)

Note : Answer all questions. Each question carries 1 Mark.

$(10 \times 1 = 10)$

1. In Late binding the function calls gets resolved during :

    (A) Compile Time   (B) Run Time

    (C) Both A and B   (D) None ot the Above

2. Which of the following denotes feature of OOPS?

    (A) Inheritance   (B) Encapsulation

    (C) Polymorphism   (D) All the Above

≠ 3. Which of the following denotes advatages of inheritance ?

    (A) Saves program development time

    (B) Code reusability

    (C) Both A and B

    (D) All the Above

4. All exceptions in Java are subclasses of built in class called :

    (A) Exception   (B) error

    (C) Throwable   (D) raise

5. In Java System, out is an object of type :

    (A) Input Stream   (B) Print Stream

    (C) Output Stream   (D) None of the above.

6. Which of the following is TRUE?

   (A) In java, an instanc field declared public generates a compilation error.

   (B) Int is the name of a class available in the package java language.

   (C) Instance variable names may only contain letters and digits.

   (D) A class has always a constructor (possibly automatically supplied by the java compiler).

7. A constructor :

   (A) Must have the same name as the class it is declared within.

   (B) is used to create objects.

   (C) may be declared priveate.

   (D) A,B and C

8. Java doesn't support inheritance.

   (A) True   (B)   False

9. What is byte code in the context of Java ?

   (A) The type of code generated by a java compiler.

   (B) The type of code generated by a java virtual machine.

   (C) It is another name for a java source file.

   (D) It is the code written within the instance methods of a class.

10. Which one of the following is correct about applet?

    Applet can perform :

    (A) Arithmetic operations   (B) Play sounds

    (C) Display graphics   (D) All the Above